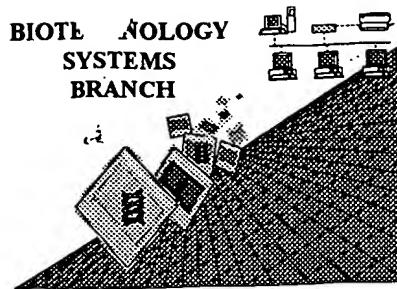


RAW SEQUENCE LISTING ERROR REPORT



SK

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/830,433
Source: PCT/09
Date Processed by STIC: 9/3/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

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Checker Version 3.0 can be downloaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,433

DATE: 09/13/2001
TIME: 17:15:58

Input Set : A:\09-830,433-Seq.Listing.txt
Output Set: N:\CRF3\09132001\I830433.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: AUJAME et al.
6 <120> TITLE OF INVENTION: Nucleic acids and polypeptides specific for pathogenic
7 strains of the Neisseria genus
9 <130> FILE REFERENCE: P07180US00/BAS
11 <140> CURRENT APPLICATION NUMBER: 09/830,433
12 <141> CURRENT FILING DATE: 2001-08-16
14 <150> PRIOR APPLICATION NUMBER: FR 98 13 693
15 <151> PRIOR FILING DATE: 1998-10-30
17 <160> NUMBER OF SEQ ID NOS: 129
19 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

875 <210> SEQ ID NO: 8
876 <211> LENGTH: 1067
877 <212> TYPE: PRT
878 <213> ORGANISM: Neisseria meningitidis
880 <400> SEQUENCE: 8
881 Met Arg Thr Thr Pro Thr Phe Pro Thr Lys Thr Phe Lys Pro Ala Ala
882 1 5 10 15
884 Met Ala Leu Ala Val Ala Thr Thr Leu Ser Ala Cys Leu Gly Gly Gly
885 20 25 30
887 Gly Gly Thr Ser Ala Pro Asp Phe Asn Ala Gly Gly Thr Gly Ile Gly
888 35 40 45
890 Ser Asn Ser Arg Ala Thr Thr Ala Lys Ser Ala Ala Val Ser Tyr Ala
891 50 55 60
893 Gly Ile Lys Asn Glu Met Cys Lys Asp Arg Ser Met Leu Cys Ala Gly
894 65 70 75 80
896 Arg Asp Asp Val Ala Val Thr Asp Arg Asp Ala Lys Ile Asn Ala Pro
897 85 90 95
899 Pro Pro Asn Leu His Thr Gly Asp Phe Thr Asn Pro Asn Asp Ala Tyr
900 100 105 110
902 Lys Asn Leu Ile Asn Leu Lys Pro Ala Ile Glu Ala Gly Tyr Thr Gly
903 115 120 125
905 Arg Gly Val Glu Val Gly Ile Val Asp Thr Gly Glu Ser Val Gly Ser
906 130 135 140
908 Ile Ser Phe Pro Glu Leu Tyr Gly Arg Lys Glu His Gly Tyr Asn Glu
909 145 150 155 160
911 Asn Tyr Lys Asn Tyr Thr Ala Tyr Met Arg Lys Glu Ala Pro Glu Asp
912 165 170 175
914 Gly Gly Gly Lys Asp Ile Lys Ala Ser Phe Asp Asp Glu Ala Val Ile
915 180 185 190
917 Glu Thr Glu Ala Lys Pro Thr Asp Ile Arg His Val Lys Glu Ile Gly
918 195 200 205
920 His Ile Asp Val Val Ser His Ile Ile Gly Gly Arg Ser Val Asp Gly
921 210 215 220

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,433

DATE: 09/13/2001
TIME: 17:15:58

Input Set : A:\09-830,433-Seq.Listing.txt
Output Set: N:\CRF3\09132001\I830433.raw

923 Arg Pro Ala Gly Gly Ile Ala Pro Asp Ala Thr Leu His Ile Met Asn
 924 225 230 235 240
 926 Thr His Asp Gly Thr Lys Asn Glu Ile Met Ser Ala Ala Ile Arg Asn
 927 245 250 255
 929 Ala Trp Val Lys Leu Gly Glu Arg Gly Val Arg Ile Val Asn Asn Ser
 930 260 265 270
 932 Phe Gly Thr Thr Ser Arg Ala Gly Thr Ala Asp His Phe Gln Ile Ala
 933 275 280 285
 935 Asn Ser Glu Glu Gln Tyr Arg Gln Ala Leu Leu Ala Tyr Ser Gly Gly
 936 290 295 300
 938 Asp Lys Thr Asp Glu Gly Ile Arg Leu Met Gln Gln Ser Asp Tyr Gly
 939 305 310 315 320
 941 Asn Leu Ser Tyr His Ile Arg Asn Lys Asn Met Leu Phe Ile Phe Ser
 942 325 330 335
 944 Ala Ser Asn Asp Ala Gln Ala Gln Pro Asn Thr Leu Thr Leu Leu Pro
 945 340 345 350
 947 Phe Tyr Glu Lys Asp Ala Gln Lys Gly Ile Ile Thr Val Ala Gly Val
 948 355 360 365
 950 Asp Arg Ser Gly Glu Lys Phe Asn Gly Ser Asn His Cys Gly Ile Thr
 951 370 375 380
 953 Ala Met Trp Cys Leu Ser Ala Pro Tyr Glu Ala Ser Val Arg Phe Thr
 954 385 390 395 400
 956 Arg Thr Asn Pro Ile Gln Ile Ala Gly Thr Ser Phe Ser Ala Pro Ile
 957 405 410 415
 959 Val Thr Gly Thr Ala Ala Leu Leu Leu Gln Lys Tyr Pro Trp Met Ser
 960 420 425 430
 962 Asn Asp Asn Leu Arg Thr Thr Leu Leu Thr Thr Ala Gln Asp Ile Gly
 963 435 440 445
 965 Ala Val Gly Val Asp Ser Lys Phe Gly Trp Gly Leu Leu Asp Ala Gly
 966 450 455 460
 968 Lys Ala Met Asn Gly Pro Ala Ser Phe Pro Phe Gly Asp Phe Thr Ala
 969 465 470 475 480
 971 Asp Thr Lys Gly Thr Ser Asp Ile Ala Tyr Ser Phe Arg Asn Asp Ile
 972 485 490 495
 974 Ser Gly Thr Gly Gly Leu Ile Lys Lys Gly Gly Ser Gln Leu Gln Leu
 975 500 505 510
 977 His Gly Asn Asn Thr Tyr Thr Gly Lys Thr Ile Ile Glu Gly Gly Ser
 978 515 520 525
 980 Leu Val Leu Tyr Gly Asn Asn Lys Ser Asp Met Arg Val Glu Thr Lys
 981 530 535 540
 983 Gly Ala Leu Ile Tyr Asn Gly Ala Ala Ser Gly Gly Ser Leu Asn Ser
 984 545 550 555 560
 986 Asp Gly Ile Val Tyr Leu Ala Asp Thr Asp Arg Ser Gly Ala Asn Glu
 987 565 570 575
 989 Thr Val His Ile Lys Gly Asp Leu Gln Leu Gly Gly Glu Gly Thr Leu
 990 580 585 590
 992 Tyr Thr Arg Leu Gly Lys Leu Leu Lys Val Asp Gly Thr Ala Met Thr
 993 595 600 605
 995 Gly Gly Lys Leu Tyr Met Ser Ala Arg Gly Lys Gly Ala Gly Tyr Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,433

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Input Set : A:\09-830,433-Seq.Listing.txt
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996	610	615	620
998	Asn Arg Thr Gly Gln Arg Val Pro Phe Leu Ser Ala Ala Lys Ile Gly		
999	625	630	635
1001	Arg Asp Tyr Ser Phe Phe Thr Asn Ile Glu Thr Asp Gly Gly Leu Leu		
1002	645	650	655
1004	Ala Ser Leu Asp Ser Val Glu Lys Thr Ala Gly Ser Glu Gly Asp Thr		
1005	660	665	670
1007	Leu Ser Tyr Tyr Val Arg Arg Gly Asn Ala Ala Arg Thr Ala Ser Ala		
1008	675	680	685
1010	Ala Ala His Ser Ala Pro Ala Gly Leu Lys His Ala Val Glu Gln Gly		
1011	690	695	700
1013	Gly Ser Asn Leu Glu Asn Leu Met Val Glu Leu Asp Ala Ser Glu Ser		
1014	705	710	715
1016	Ser Ala Thr Pro Glu Thr Val Glu Thr Ala Ala Ala Asp Arg Thr Asp		
1017	725	730	735
1019	Met Pro Gly Ile Arg Pro Tyr Gly Ala Thr Phe Arg Ala Ala Ala Ala		
1020	740	745	750
1022	Val Gln His Ala Asn Ala Ala Asp Gly Val Arg Ile Phe Asn Ser Leu		
1023	755	760	765
1025	Ala Ala Thr Val Tyr Ala Asp Ser Thr Ala Ala His Ala Asp Met Gln		
1026	770	775	780
1028	Gly Arg Arg Leu Lys Ala Val Ser Asp Gly Leu Asp His Asn Ala Thr		
1029	785	790	795
1031	Gly Leu Arg Val Ile Ala Gln Thr Gln Gln Asp Gly Gly Thr Trp Glu		
1032	805	810	815
1034	Gln Gly Gly Val Glu Gly Lys Met Arg Gly Ser Thr Gln Thr Val Gly		
1035	820	825	830
1037	Ile Ala Ala Lys Thr Gly Glu Asn Thr Thr Ala Ala Ala Thr Leu Gly		
1038	835	840	845
1040	Met Gly His Ser Thr Trp Ser Glu Asn Ser Ala Asn Ala Lys Thr Asp		
1041	850	855	860
1043	Ser Ile Ser Leu Phe Ala Gly Ile Arg His Asp Ala Gly Asp Ile Gly		
1044	865	870	875
1046	Tyr Leu Lys Gly Leu Phe Ser Tyr Gly Arg Tyr Lys Asn Ser Ile Ser		
1047	885	890	895
1049	Arg Ser Thr Gly Ala Asp Glu His Ala Glu Gly Ser Val Asn Gly Thr		
1050	900	905	910
1052	Leu Met Gln Leu Gly Ala Leu Gly Gly Val Asn Val Pro Phe Ala Ala		
1053	915	920	925
1055	Thr Gly Asp Leu Thr Val Glu Gly Leu Arg Tyr Asp Leu Leu Lys		
1056	930	935	940
1058	Gln Asp Ala Phe Ala Glu Lys Gly Ser Ala Leu Gly Trp Ser Gly Asn		
1059	945	950	955
1061	Ser Leu Thr Glu Gly Thr Leu Val Gly Leu Ala Gly Leu Lys Leu Ser		
1062	965	970	975
1064	Gln Pro Leu Ser Asp Lys Ala Val Leu Phe Ala Thr Ala Gly Val Glu		
1065	980	985	990
1067	Arg Asp Leu Asn Gly Arg Asp Tyr Thr Val Thr Gly Gly Phe Thr Gly		
1068	995	1000	1005

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,433

DATE: 09/13/2001
TIME: 17:15:58

Input Set : A:\09-830,433-Seq.Listing.txt
Output Set: N:\CRF3\09132001\I830433.raw

1070 Ala Thr Ala Ala Thr Gly Lys Thr Gly Ala Arg Asn Met Pro His Thr
1071 1010 1015 1020
1073 Arg Leu Val Ala Gly Leu Gly Ala Asp Val Glu Phe Gly Asn Gly Trp
E--> 1074 025 1025 1030 1035 1040
1076 Asn Gly Leu Ala Arg Tyr Ser Tyr Ala Gly Ser Lys Gln Tyr Gly Asn
1077 1045 1050 1055
1079 His Ser Gly Arg Val Gly Val Gly Tyr Arg Phe
1080 1060 1065

When
numbering
first amino
acid on a line,
begin number
directly under
first letter of
amino acid

L.S. Arg
1025

09/830,433 5

<210> 115
<211> 32
<212> DNA
<213> Artificial Sequence

<400> 115
cgggatccat cgttcttcaa tctccacaaa cg

see item 11 on Envelope
sheet

32

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/830,433

DATE: 09/13/2001
TIME: 17:16:00

Input Set : A:\09-830,433-Seq.Listing.txt
Output Set: N:\CRF3\09132001\I830433.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1074 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:7951 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:7951 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:



SK

RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 09/830,433

Source: PCT/09

Date Processed by STIC: 9/13/2001

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S

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L:1074 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:7951 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:7951 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,433

DATE: 09/13/2001
TIME: 17:15:58

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6 <120> TITLE OF INVENTION: Nucleic acids and polypeptides specific for pathogenic
7 strains of the Neisseria genus
9 <130> FILE REFERENCE: P07180US00/BAS
11 <140> CURRENT APPLICATION NUMBER: 09/830,433
12 <141> CURRENT FILING DATE: 2001-08-16
14 <150> PRIOR APPLICATION NUMBER: FR 98 13 693
15 <151> PRIOR FILING DATE: 1998-10-30
17 <160> NUMBER OF SEQ ID NOS: 129
19 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

875 <210> SEQ ID NO: 8
876 <211> LENGTH: 1067
877 <212> TYPE: PRT
878 <213> ORGANISM: Neisseria meningitidis
880 <400> SEQUENCE: 8
881 Met Arg Thr Thr Pro Thr Phe Pro Thr Lys Thr Phe Lys Pro Ala Ala
882 1 5 10 15
884 Met Ala Leu Ala Val Ala Thr Thr Leu Ser Ala Cys Leu Gly Gly Gly
885 20 25 30
887 Gly Gly Thr Ser Ala Pro Asp Phe Asn Ala Gly Gly Thr Gly Ile Gly
888 35 40 45
890 Ser Asn Ser Arg Ala Thr Thr Ala Lys Ser Ala Ala Val Ser Tyr Ala
891 50 55 60
893 Gly Ile Lys Asn Glu Met Cys Lys Asp Arg Ser Met Leu Cys Ala Gly
894 65 70 75 80
896 Arg Asp Asp Val Ala Val Thr Asp Arg Asp Ala Lys Ile Asn Ala Pro
897 85 90 95
899 Pro Pro Asn Leu His Thr Gly Asp Phe Thr Asn Pro Asn Asp Ala Tyr
900 100 105 110
902 Lys Asn Leu Ile Asn Leu Lys Pro Ala Ile Glu Ala Gly Tyr Thr Gly
903 115 120 125
905 Arg Gly Val Glu Val Gly Ile Val Asp Thr Gly Glu Ser Val Gly Ser
906 130 135 140
908 Ile Ser Phe Pro Glu Leu Tyr Gly Arg Lys Glu His Gly Tyr Asn Glu
909 145 150 155 160
911 Asn Tyr Lys Asn Tyr Thr Ala Tyr Met Arg Lys Glu Ala Pro Glu Asp
912 165 170 175
914 Gly Gly Lys Asp Ile Lys Ala Ser Phe Asp Asp Glu Ala Val Ile
915 180 185 190
917 Glu Thr Glu Ala Lys Pro Thr Asp Ile Arg His Val Lys Glu Ile Gly
918 195 200 205
920 His Ile Asp Val Val Ser His Ile Ile Gly Gly Arg Ser Val Asp Gly
921 210 215 220

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,433

DATE: 09/13/2001
TIME: 17:15:58

Input Set : A:\09-830,433-Seq.Listing.txt
Output Set: N:\CRF3\09132001\I830433.raw

923 Arg Pro Ala Gly Gly Ile Ala Pro Asp Ala Thr Leu His Ile Met Asn
 924 225 230 235 240
 926 Thr His Asp Gly Thr Lys Asn Glu Ile Met Ser Ala Ala Ile Arg Asn
 927 245 250 255
 929 Ala Trp Val Lys Leu Gly Glu Arg Gly Val Arg Ile Val Asn Asn Ser
 930 260 265 270
 932 Phe Gly Thr Thr Ser Arg Ala Gly Thr Ala Asp His Phe Gln Ile Ala
 933 275 280 285
 935 Asn Ser Glu Glu Gln Tyr Arg Gln Ala Leu Leu Ala Tyr Ser Gly Gly
 936 290 295 300
 938 Asp Lys Thr Asp Glu Gly Ile Arg Leu Met Gln Gln Ser Asp Tyr Gly
 939 305 310 315 320
 941 Asn Leu Ser Tyr His Ile Arg Asn Lys Asn Met Leu Phe Ile Phe Ser
 942 325 330 335
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 947 Phe Tyr Glu Lys Asp Ala Gln Lys Gly Ile Ile Thr Val Ala Gly Val
 948 355 360 365
 950 Asp Arg Ser Gly Glu Lys Phe Asn Gly Ser Asn His Cys Gly Ile Thr
 951 370 375 380
 953 Ala Met Trp Cys Leu Ser Ala Pro Tyr Glu Ala Ser Val Arg Phe Thr
 954 385 390 395 400
 956 Arg Thr Asn Pro Ile Gln Ile Ala Gly Thr Ser Phe Ser Ala Pro Ile
 957 405 410 415
 959 Val Thr Gly Thr Ala Ala Leu Leu Leu Gln Lys Tyr Pro Trp Met Ser
 960 420 425 430
 962 Asn Asp Asn Leu Arg Thr Thr Leu Leu Thr Thr Ala Gln Asp Ile Gly
 963 435 440 445
 965 Ala Val Gly Val Asp Ser Lys Phe Gly Trp Gly Leu Leu Asp Ala Gly
 966 450 455 460
 968 Lys Ala Met Asn Gly Pro Ala Ser Phe Pro Phe Gly Asp Phe Thr Ala
 969 465 470 475 480
 971 Asp Thr Lys Gly Thr Ser Asp Ile Ala Tyr Ser Phe Arg Asn Asp Ile
 972 485 490 495
 974 Ser Gly Thr Gly Gly Leu Ile Lys Lys Gly Gly Ser Gln Leu Gln Leu
 975 500 505 510
 977 His Gly Asn Asn Thr Tyr Thr Gly Lys Thr Ile Ile Glu Gly Gly Ser
 978 515 520 525
 980 Leu Val Leu Tyr Gly Asn Asn Lys Ser Asp Met Arg Val Glu Thr Lys
 981 530 535 540
 983 Gly Ala Leu Ile Tyr Asn Gly Ala Ala Ser Gly Gly Ser Leu Asn Ser
 984 545 550 555 560
 986 Asp Gly Ile Val Tyr Leu Ala Asp Thr Asp Arg Ser Gly Ala Asn Glu
 987 565 570 575
 989 Thr Val His Ile Lys Gly Asp Leu Gln Leu Gly Gly Glu Gly Thr Leu
 990 580 585 590
 992 Tyr Thr Arg Leu Gly Lys Leu Leu Lys Val Asp Gly Thr Ala Met Thr
 993 595 600 605
 995 Gly Gly Lys Leu Tyr Met Ser Ala Arg Gly Lys Gly Ala Gly Tyr Leu

RAW SEQUENCE LISTING
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999	625	630	635
1001	Arg Asp Tyr Ser Phe Phe Thr Asn Ile Glu Thr Asp Gly Gly Leu Leu		
1002	645	650	655
1004	Ala Ser Leu Asp Ser Val Glu Lys Thr Ala Gly Ser Gly Gly Asp Thr		
1005	660	665	670
1007	Leu Ser Tyr Tyr Val Arg Arg Gly Asn Ala Ala Arg Thr Ala Ser Ala		
1008	675	680	685
1010	Ala Ala His Ser Ala Pro Ala Gly Leu Lys His Ala Val Glu Gln Gly		
1011	690	695	700
1013	Gly Ser Asn Leu Glu Asn Leu Met Val Glu Leu Asp Ala Ser Gly Ser		
1014	705	710	715
1016	Ser Ala Thr Pro Glu Thr Val Glu Thr Ala Ala Asp Arg Thr Asp		
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1019	Met Pro Gly Ile Arg Pro Tyr Gly Ala Thr Phe Arg Ala Ala Ala Ala		
1020	740	745	750
1022	Val Gln His Ala Asn Ala Ala Asp Gly Val Arg Ile Phe Asn Ser Leu		
1023	755	760	765
1025	Ala Ala Thr Val Tyr Ala Asp Ser Thr Ala Ala His Ala Asp Met Gln		
1026	770	775	780
1028	Gly Arg Arg Leu Lys Ala Val Ser Asp Gly Leu Asp His Asn Ala Thr		
1029	785	790	795
1031	Gly Leu Arg Val Ile Ala Gln Thr Gln Gln Asp Gly Gly Thr Trp Glu		
1032	805	810	815
1034	Gln Gly Gly Val Glu Gly Lys Met Arg Gly Ser Thr Gln Thr Val Gly		
1035	820	825	830
1037	Ile Ala Ala Lys Thr Gly Glu Asn Thr Thr Ala Ala Ala Thr Leu Gly		
1038	835	840	845
1040	Met Gly His Ser Thr Trp Ser Glu Asn Ser Ala Asn Ala Lys Thr Asp		
1041	850	855	860
1043	Ser Ile Ser Leu Phe Ala Gly Ile Arg His Asp Ala Gly Asp Ile Gly		
1044	865	870	875
1046	Tyr Leu Lys Gly Leu Phe Ser Tyr Gly Arg Tyr Lys Asn Ser Ile Ser		
1047	885	890	895
1049	Arg Ser Thr Gly Ala Asp Glu His Ala Glu Gly Ser Val Asn Gly Thr		
1050	900	905	910
1052	Leu Met Gln Leu Gly Ala Leu Gly Gly Val Asn Val Pro Phe Ala Ala		
1053	915	920	925
1055	Thr Gly Asp Leu Thr Val Glu Gly Gly Leu Arg Tyr Asp Leu Leu Lys		
1056	930	935	940
1058	Gln Asp Ala Phe Ala Glu Lys Gly Ser Ala Leu Gly Trp Ser Gly Asn		
1059	945	950	955
1061	Ser Leu Thr Glu Gly Thr Leu Val Gly Leu Ala Gly Leu Lys Leu Ser		
1062	965	970	975
1064	Gln Pro Leu Ser Asp Lys Ala Val Leu Phe Ala Thr Ala Gly Val Glu		
1065	980	985	990
1067	Arg Asp Leu Asn Gly Arg Asp Tyr Thr Val Thr Gly Gly Phe Thr Gly		
1068	995	1000	1005

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,433

DATE: 09/13/2001
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Input Set : A:\09-830,433-Seq.Listing.txt
Output Set: N:\CRF3\09132001\I830433.raw

1070 Ala Thr Ala Ala Thr Gly Lys Thr Gly Ala Arg Asn Met Pro His Thr
1071 1010 1015 1020
1073 Arg Leu Val Ala Gly Leu Gly Ala Asp Val Glu Phe Gly Asn Gly Trp
E--> 1074 025 /025 1030 1035 1040
1076 Asn Gly Leu Ala Arg Tyr Ser Tyr Ala Gly Ser Lys Gln Tyr Gly Asn
1077 1045 1050 1055
1079 His Ser Gly Arg Val Gly Val Gly Tyr Arg Phe
1080 1060 1065

When
numbering
first amino
acid on a line,
begin number
directly under
first letter of
amino acid

e.g. Arg
1025

09/830,433 5

<210> 115
<211> 32
<212> DNA
<213> Artificial Sequence

<400> 115
cgggatccat cgttcttcaa tctccacaaa cg

see item 11 on Eva Summary
sheet

32